

4. The fuel cell according to Claim 1, wherein the anion exchange membrane comprises Tosflex®.
5. The fuel cell according to Claim 1, wherein the cationic exchange membrane comprises Nafion®.
6. The fuel cell according to Claim 1, wherein at least one of said gas diffusion layers comprises carbon paper.
7. The fuel cell according to Claim 1, wherein the cation exchange membrane and the anion exchange membrane are vertically disposed relative to each other.
8. The fuel cell according to Claim 1, wherein the gas channel crosses the cation exchange membrane and the anion exchange membrane at a plurality of points.
9. The fuel cell according to Claim 1, wherein said fuel cell comprises a plurality of anion exchange membranes and a plurality of cation exchange membranes disposed alternately on the same plane.
10. The fuel cell according to Claim 9, wherein said fuel cell comprises a plurality of gas channels which cross the plane on which the plurality of anion exchange membranes and a plurality of cation exchange membranes are alternately disposed.
11. A solid polymer fuel cell comprising a plurality of unit cells stacked one after another, said unit cell comprising an electrode of an anion exchange membrane comprising a heat-resistant polymer having an ionic group and an electrode of a cation exchange membrane disposed adjacent but not in contact with each other, gas diffusion layers commonly disposed on both sides of these electrodes for allowing electrons generated on the catalysts to pass, and interconnectors which are disposed outside the gas diffusion layers and serve as a current carrier having a gas channel.

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Respectfully submitted,

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